STIC Database Tracking Number: 13024

TO: Rebecca Cook

Location: REM-4A65/3C70

Art Unit: 1614 August 20, 2004

Case Serial Number: 09/225499

From: P. Sheppard

Location: Remsen Building

Phone: (571) 272-2529

sheppard@uspto.gov

Search Notes			
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			,

U.S. DEPARTMENT OF COMMERCE | 3024| **SEARCH REQUEST FORM** Serial 0 9/2 25 49 9 Requestor's Name: Phone: 7(113 (70 Art Unit: 16/4 Search Topic: Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevent citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevent claim(s). Elease Servets Composition of claim 19 separately & together of Same purpose in forms of claims 22, 23+24. search compound of claim 15 Manh you Letura Cosh Rush search withoused CHRISTOPHER 5. F. LOW SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600 STAFF USE ONLY Date completed: Search Site **Vendors** Searcher: Standard STIC _____ CM-1 ___ STN Terminal time: Elapsed time: ____ Pre-S Dialog

Type of Search

N.A. Sequence

A.A. Sequence Structure

Bibliographic

___ APS

___ Geninfo

SDC

Other

DARC/Questel

CPU time:_

Total time:

Number of Searches: ____

Number of Databases: ____

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 L2
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         1760 S L7
         27247 S L8 OR ?CYCLODEXTR?
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           3 S 5-ANDROSTENE-3.BETA.,17.ALPHA.-DIOL?/CN
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         1153 S 3(2W)BETA AND 17(W)ALPHA(2W)DIOL?
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          162 S L17 AND L14
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▶ L45
           5 S L21 AND L28
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           1 S L46 NOT (L31 OR L27 OR L33 OR L36 OR L38 OR L40 OR L43)
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                                                                         + Utility
5-androstere-3B, 17 x-diol
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=> fil hcaplus FILE 'HCAPLUS' ENTERED AT 16:31:09 ON 20 AUG 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 20 Aug 2004 VOL 141 ISS 8 FILE LAST UPDATED: 18 Aug 2004 (20040818/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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REP G3 = (3-6) C
REP G4 = (0-4) C
VAR G5=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/24/34/36/43
REP G6 = (1-6) C
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Page 2

NUMBER OF NODES IS 48

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L27 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                   2002:716010 HCAPLUS
DOCUMENT NUMBER:
                        137:242464
TITLE:
                        Treatment of tumors with steroids that interrupt
                        disturbances in Wnt signaling or provide an
                        angiostatic effect
INVENTOR(S):
                        Hagstroem, Tomas
PATENT ASSIGNEE(S):
                        Swed.
SOURCE:
                        PCT Int. Appl., 54 pp.
                        CODEN: PIXXD2
DOCUMENT TYPE:
                        Patent
LANGUAGE:
                        English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
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                      KIND DATE
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    WO 2002072003
                       A2
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                       A3 20030220
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            FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG,
            KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
            MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK,
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IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2004524325 T2 20040812 JP 2002-570963 20020311

PRIORITY APPLN. INFO.: SE 2001-857 A 20010313

WO 2002-SE443 W 20020311

A2 20040114

OTHER SOURCE(S): MARPAT 137:242464

EP 1379542

AB The present invention relates to steroid derivs. for use as medicaments.

AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

EP 2002-704017

20020311

More specifically, the invention also relates to the use of a steroid derivative of 5-androstene-, 5-pregnenolone or corresponding saturated derivs. (androstane- or pregnane-) in the manufacture of a medicament for the treatment of a benign and/or malignant tumor, which medicament is capable of interrupting disturbances in Wnt-signaling, such as cell-cycle arrest in G1-phase, and/or providing an angiostatic effect. Examples of such steroid derivs. are Δ - 5androstene-17 α -ol, androstane-17 α -ol, or pregnane- 17α -ol derivs. In a further aspect, the invention relates to a method of producing a medicament for the treatment of a benign and/or malignant tumor and/or an inflammatory condition comprising the steps of contacting 5-androstane-3 β α , 17. alpha.-diol or androstane-3.beta $.\alpha$ -diol, an enzyme and a sulfotransferase to provide 5androstene-17 α -ol- 3β -sulfate or corresponding androstane derivative (17 α -AEDS or 17-AADS); and mixing the 17α -AEDS or 17α -AADS so produced with a suitable carrier; whereby a medicament which is capable of acting as a ligand to peroxisome proliferator-activated receptor-y (PPARy) is produced. Pharmaceutical compns. containing the steroids plus other nuclear receptor ligands are also claimed. 1963-03-7P, 5-Androstene-3 β ,17 α -diol RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

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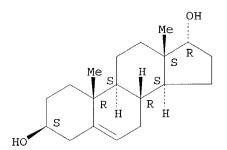
(preparation of steroids that interrupt disturbances in Wnt signaling or provide an angiostatic effect for tumor treatment)

1963-03-7 HCAPLUS

CNAndrost-5-ene-3,17-diol, $(3\beta,17\alpha)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN



IT19213-05-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of steroids that interrupt disturbances in Wnt signaling or provide an angiostatic effect for tumor treatment)

RN19213-05-9 HCAPLUS

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IT 521-17-5P 2099-26-5P

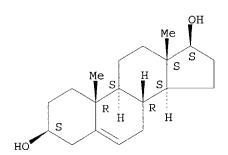
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of steroids that interrupt disturbances in Wnt signaling or provide an angiostatic effect for tumor treatment)

RN 521-17-5 HCAPLUS

CN Androst-5-ene-3,17-diol, $(3\beta,17\beta)$ - (9CI) (CA INDEX NAME)

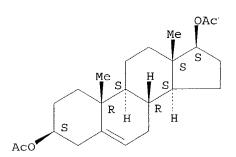
Absolute stereochemistry.



RN 2099-26-5 HCAPLUS

CN Androst-5-ene-3,17-diol, diacetate, (3 β ,17 β)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L27 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:684284 HCAPLUS

DOCUMENT NUMBER:

127:322811

TITLE:

5-androstene-3.

beta.,17 α -

diol as an inhibitor of tumor growth

INVENTOR(S):

Loria, Roger M.

PATENT ASSIGNEE(S):

Loria, Roger M., USA

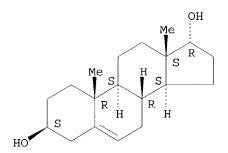
PCT Int. Appl., 19 pp.

CODEN: PIXXD2

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DOCUMENT TYPE:
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LANGUAGE:
                          English
FAMILY ACC. NUM. COUNT:
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                         KIND
                                 DATE
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                                                                  P 19960604
                                             US 1996-18985P
                                             EP 1997-920244
                                                                  A3 19970410
                                             WO 1997-US5849
                                                                  W 19970410
OTHER SOURCE(S):
                         MARPAT 127:322811
     The invention provides means of accelerating cell aging and programmed
     cell death in tumor cells by administration of 3.beta
     .,17\alpha-androstenediol (\alphaAED) or its ethers or esters.
     Pharmaceutical compns. containing 5-androstene-3
     \beta ,17\alpha -diol and a second
     anticancer drug also are claimed.
IT
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     \beta ,17\alpha -diol
     1963-03-7D, 5-Androstene 3
     \beta ,17\alpha -diol, ethers or
     esters 7585-39-9D, \beta- Cyclodextrin,
     hydroxypropyl-, inclusion compound with 5-androstene-
     3\beta , 17\alpha -diol
     12619-70-4D, Cyclodextrin, inclusion compound with
     5-androstene-3B ,17
     \alpha -diol
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
        (5-androstene-3\beta),
        17\alpha -diol as inhibitor of tumor
        growth)
     1963-03-7 HCAPLUS
RN
CN_3
     Androst-5-ene-3,17-diol, (3\beta,17\alpha)- (9CI) (CA INDEX NAME)
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Absolute stereochemistry.

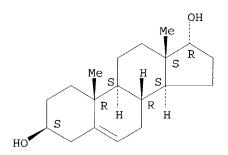
SOURCE:



RN 1963-03-7 HCAPLUS

CN Androst-5-ene-3,17-diol, $(3\beta,17\alpha)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

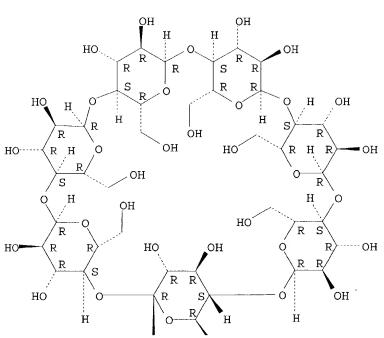


RN 7585-39-9 HCAPLUS

CN β -Cyclodextrin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

Η OH

RN 12619-70-4 HCAPLUS

Cyclodextrin (9CI) (CA INDEX NAME)

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L8L10

L28

L29

L31

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26319 SEA FILE=REGISTRY ABB=ON PLU=ON CYCLODEXTR?

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?NEOPLAS?) (5A) (?MEDIC? OR ?PHARM? OR ?DRUG? OR INHIBTOR OR

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85 SEA FILE=HCAPLUS ABB=ON PLU=ON L29 AND PD=<APRIL 10, 1997 L30

8 SEA FILE=HCAPLUS ABB=ON PLU=ON L30 AND (?PARENTER? OR

?BUCCAL? OR ?SUBLING? OR ?ENDOTRACH? OR ?AEROS?)

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L31 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:623325 HCAPLUS

DOCUMENT NUMBER: 127:272443

TITLE: Methyl-β- cyclodextrin in HL-60 parental

and multidrug-resistant cancer

cell lines. Effect on the cytotoxic activity and

intracellular accumulation of doxorubicin

Grosse, Pierre Yves; Bressolle, Francoise; Pinquet,

Frederic

Department Oncological Pharmacology, Anticancer

Center, Montpellier, F-34298, Fr.

Cancer Chemotherapy and Pharmacology (1997),

40(6), 489-494

CODEN: CCPHDZ; ISSN: 0344-5704

PUBLISHER: DOCUMENT TYPE:

CORPORATE SOURCE:

AUTHOR(S):

SOURCE:

AB

Springer Journal

LANGUAGE: English

The role of methyl- β - cyclodextrin (MEBCD) in combination with doxorubicin (DOX) was determined on the cellular proliferation of a sensitive parenteral and a multidrug-resistant human cancer cell line (HL-60 S and HL-60 R) and the effect of MEBCD on DOX intracellular accumulation was studied. The cytotoxicity of DOX at 5 concns. (50-50,000 nM) was evaluated with or without the coadministration of 4 fixed noncytotoxic concns. of MEBCD (100, 200, 500, and 1,000 µM).

MEBCD applied at 500 and 1,000 µM combination with DOX potentiated the activity of DOX used alone on both sensitive and multidrug-resistant cell lines; IC50 ratios (IC50 MEBCD-DOX/ IC50DOX) were about 3:4 and 1.6:4 for HL-60 S and HL-60 R, resp. Moreover, intracellular DOX accumulation, during 6 h of drug exposure, was about 2-4 + higher for cells treated with MEBCD in combination with DOX than in those treated with DOX alone.

7585-39-9D, β - Cyclodextrin, Me ethers

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(effect on the cytotoxic activity and intracellular accumulation of doxorubicin)

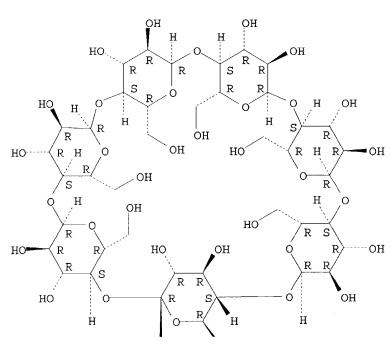
RN 7585-39-9 HCAPLUS

IT

CN β-Cyclodextrin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



L31 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:828999 HCAPLUS

DOCUMENT NUMBER: 123:265928

TITLE: Effect of SBE4- β -CD, a sulfobutyl ether β -

cyclodextrin, on the stability and solubility

of O6-benzylguanine (NSC-637037) in aqueous solutions

AUTHOR(S): Gorecka, Barbara A.; Sanzgiri, Yeshwant D.; Bindra,

Dilbir S.; Stella, Valentino J.

CORPORATE SOURCE: Department of Pharmaceutical Chemistry and Center for

Drug Delivery Research, University of Kansas,

Lawrence, KS, 66045, USA

International Journal of Pharmaceutics (1995

), 125(1), 55-61

CODEN: IJPHDE; ISSN: 0378-5173

PUBLISHER:
DOCUMENT TYPE:

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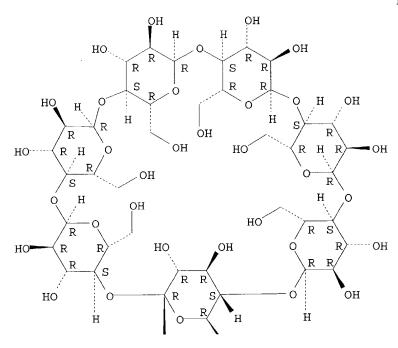
Elsevier Journal English

LANGUAGE: The effect of SBE4- β -CD, a sulfobutyl ether derivative of β cyclodextrin on the solubility and aqueous hydrolysis of the antitumor drug O6-benzylquanine (BG) was studied. SBE4- β -CD is an apparently parenterally safe anionic β- cyclodextrin derivative with superior solubilizing properties in water. BG has poor aqueous solubility and undergoes rapid hydrolysis to the poorly water soluble guanine. The stability of a parenteral BG formulation was studied after storage at 25, 37 and 50°. Compared to the intrinsic solubility of BG (0.14 mg/mL, 25°), 0.05 M SBE4- β -CD enhanced its solubility to 2.9 mg/mL at 25° and 3.9 mg/mL at 50°. Solubility data yielded binding consts. (Kb) of 565 M-1 at 25° and 342 M-1 at 50°. The solubility of guanine was only slightly enhanced by SBE4-β-CD. Hydrolysis kinetics of BG were studied at 50° over a pH range of 1-9 and the maximum stability was observed at pH 8-8.5. In the presence of 0.05M SBE4- β -CD, hydrolysis was about 9.5-times slower at pH 1, 14.6-times slower at pH 6 and 10-times slower at pH 8. The effect of SBE4- β -CD concentration was studied at pH 2.2 and 4.8 at 50°. Hydrolysis rate consts. decreased with increasing SBE4- β -CD concns. A non-linear regression anal. of this data yielded Kb values of 311 and 270 M-1 at pH 2.2 and 4.8, resp. A formulation containing 2.5 mg/mL of BG and 0.05 M SBE4- β -CD in a pH 8 phosphate buffer was stored in ampoules at 25, 37 and 50°. Guanine production in the samples was measured since its low solubility (2.5 μ g/mL) imposed a limitation on the shelf life. Guanine levels exceeded its apparent solubility after 1-2 mo of storage at 50°. At 37° guanine levels were only 1.6 $\mu g/mL$ after 343 days of storage whereas those at 25° were negligible and below the limit of quantitation (approx. 0.1 μq/mL). The greater stability at room temperature may be attributed to the higher Kb value observed and greater intrinsic stability of BG in the

RN 7585-39-9 HCAPLUS

CN β-Cyclodextrin (8CI, 9CI) (CA INDEX NAME)

PAGE 1-A



Η OH PAGE 2-A

L31 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1994:465430 HCAPLUS

DOCUMENT NUMBER:

121:65430

TITLE:

Pharmaceutical evaluation of branched β-

cyclodextrins as drug carriers in

parenteral formulation

AUTHOR(S):

Uekama, K.; Yamamoto, M.; Irie, T.; Hirayama, F.

CORPORATE SOURCE: SOURCE:

Fac. Pharm. Sci., Kumamoto Univ., Kumamoto, 862, Japan Minutes Int. Symp. Cyclodextrins, 6th (1992)

, 491-6. Editor(s): Hedges, Allan R. Ed. Sante:

Paris, Fr. CODEN: 60BCAL

DOCUMENT TYPE:

Conference

English LANGUAGE:

The physicochem, and biopharmaceutical properties of the branched β cyclodextrins were evaluated and their inclusion characteristics

were compared with those of hydrophilic β- cyclodextrin

 $(\beta$ -CyD) analogs. Then, advantage of maltosyl- β cyclodextrin (G2-β-CyD) in parenteral formulations

of prostaglandin E1 (PGE1) and polypeptide drugs such as insulin

and tumor necrosis factor (TNF) was discussed.

7585-39-9, β - Cyclodextrin ITRL: BIOL (Biological study) (carrier for parenteral formulations, branched compds. in relation to)

7585-39-9 HCAPLUS

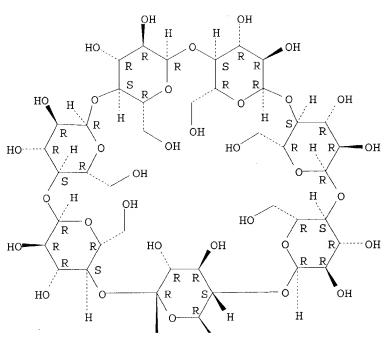
RN

CN

β-Cyclodextrin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



IT 92517-02-7, Glucosyl β - cyclodextrin 104723-60-6, Maltosyl β - cyclodextrin

107035-66-5, Dimaltosyl- β - cyclodextrin

RL: BIOL (Biological study)

(carrier for parenteral formulations, properties of)

RN 92517-02-7 HCAPLUS

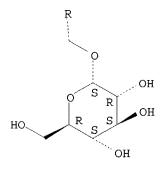
β-Cyclodextrin, O-α-D-glucopyranosyl-(1→6A)- (9CI) (CA

INDEX NAME)

CN

PAGE 1-A

PAGE 2-A



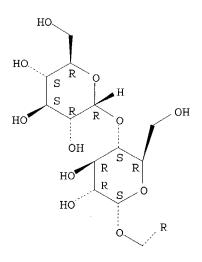
104723-60-6 HCAPLUS RN CN

 $\beta\text{-Cyclodextrin, } \text{O-}\alpha\text{-D-glucopyranosyl-(1}\rightarrow\text{4)-O-}\alpha\text{-D-glucopyranosyl-(1}\rightarrow\text{6A)- (9CI)}$ (CA INDEX NAME)

PAGE 1-A

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PAGE 3-A



RN 107035-66-5 HCAPLUS

CN β -Cyclodextrin, $0-\alpha$ -D-glucopyranosyl- $(1\rightarrow 4)$ - $0-\alpha$ -D-glucopyranosyl- $(1\rightarrow 6A)$ - $0-[0-\alpha$ -D-glucopyranosyl- $(1\rightarrow 4)$ -

 $\alpha\text{-D-glucopyranosyl-(1\to6D)}\text{-}$ (9CI) (CA INDEX NAME) Absolute stereochemistry.

PAGE 1-A

PAGE 3-A

L31 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1993:503357 HCAPLUS

DOCUMENT NUMBER:

119:103357

TITLE:

SOURCE:

Drug formulations for parenteral

use in cancer therapy

INVENTOR(S):

Jalonen, Harry Gosta; Heikkila, Terttu Marita; Jalonen, Hannu Uolevi; Kangas, Lauri Veikko Matti; Lammintausta, Risto Arvo Sakari; Kurkela, Kauko Oiva

Antero

PATENT ASSIGNEE(S):

Orion-Yhtyma Oy, Finland

PCT Int. Appl., 15 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

WO 9311757 A1 19930624 WO 1992-FI339 19921210 < W: AU, BG, CA, CS, FI, HU, JP, KR, NO, NZ, PL, PT, RO, RU, UA, US RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE AU 9331599 A1 19930719 AU 1993-31599 19921210 <		TENT NO.		KIND		APPLICATION NO.	DATE
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE		9311757		A1	19930624		
AU 9331599 A1 19930719 AU 1993-31599 19921210 <					K, ES, FR,	GB, GR, IE, IT, LU,	MC, NL, PT, SE
	AU	9331599		A1	19930719	AU 1993-31599	19921210 <
AU 667861 B2 19960418	AU	667861		B2			
ZA 9209592 A 19930806 ZA 1992-9592 19921210 <	ZA	9209592		A	19930806	ZA 1992-9592	19921210 <
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EP 616529 B1 19970312	EP	616529		В1	19970312		
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JP 07501813 T2 19950223 JP 1992-510650 19921210 <	JP	07501813			19950223	JP 1992-510650	19921210 <
AT 149828 E 19970315 AT 1993-900114 19921210 <	AT	149828		E	19970315	AT 1993-900114	19921210 <
NO 9402155 A 19940610 NO 1994-2155 19940609 <	NO	9402155		Α	19940610	NO 1994-2155	19940609 <
FI 9402728 A 19940610 FI 1994-2728 19940610 <	FI	9402728		Α	19940610	FI 1994-2728	19940610 <
US 5571534 A 19961105 US 1994-244549 19940707 <	US	5571534		Α	19961105	US 1994-244549	19940707 <
PRIORITY APPLN. INFO.: GB 1991-26209 A 19911210	PRIORIT	Y APPLN.	INFO.:			GB 1991-26209	A 19911210
WO 1992-FI339 A 19921210						WO 1992-FI339	A 19921210

A parenteral formulation is prepared in the form of an emulsion or AΒ liposome containing active agent selected from the group consisting of toremifene, desmethyl toremifene, tamoxifen, and desmethyltamoxifen or a pharmaceutically acceptable nontoxic salt thereof.

7585-39-9D, β - Cyclodextrin, complexes with IT antitumor drugs 17465-86-0D, $\gamma\text{--}$

Cyclodextrin, complexes with antitumor drugs

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pharmaceuticals containing, parenteral)

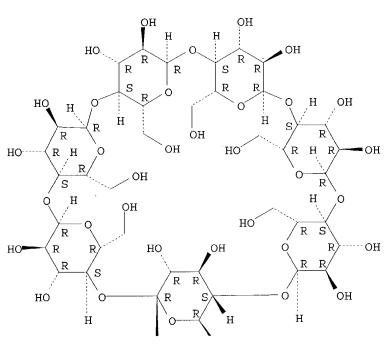
RN 7585-39-9 HCAPLUS

CN

β-Cyclodextrin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

Н

RN 17465-86-0 HCAPLUS CN γ -Cyclodextrin (8CI, 9CI) (CA INDEX NAME)

L31 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1993:51306 HCAPLUS

DOCUMENT NUMBER:

118:51306

TITLE:

Platinum complexes with phenyalkylethylenediamine

ligands

INVENTOR(S):

Brunner, Henri; Hankofer, Peter; Maiterth, Friedrich; Engel, Juergen; Schumacher, Wolfgang; Hilgard, Peter;

Voegeli, Rainer

PATENT ASSIGNEE(S):

•

Asta Pharma A.-G., Germany

Eur. Pat. Appl., 45 pp.

CODEN: EPXXDW Patent

DOCUMENT TYPE:

LANGUAGE:

SOURCE:

German

FAMILY ACC. NUM. COUNT:

PARTIES ACC. NOW. COUNT.

PATENT INFORMATION:

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	451753	A1		EP 1991-105514	19910408 <
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JP	07112994	A2	19950502	JP 1991-69854	19910402 <
DE	4111249	A1	19920206	DE 1991-4111249	19910408 <
NO	9101373	A	19911011	NO 1991-1373	19910409 <
FI	9101698	Α	19911011	FI 1991-1698	19910409 <
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HU	57788	A2	19911230	HU 1991-1145	19910409 <
ZA .	9102630	A	19920129	ZA 1991-2630	19910409 <
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US !	5194644	A	19930316	US 1991-683431	19910410 <
NO :	9204063	A	19911011	NO 1992-4063	19921020 <
NO :	9204064	A	19911011	NO 1992-4064	19921020 <
US !	5238955	A	19930824	US 1992-981475	19921125 <
PRIORITY	APPLN. INFO.	:		DE 1990-4011520	19900410
				NO 1991-1373	19910409
				US 1991-683431	
OTHER SO	URCE(S):	MARPAT	118:51306	5	

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GI

$$\begin{array}{c|cccc}
R^2 & R^3 \\
B-C & C-R^4
\end{array}$$
 $\begin{array}{c|ccccc}
H_2N & NH_2 \\
X & X & X
\end{array}$

The title complexes are described by the general formula I (B = a pH-C1-4AB alkyl residue which may optionally have a R1 substituent in the Ph group with R1 = H, a halogen, a trihalomethyl, a C1-6 alkyl, a hydroxy, a C1-6 alkoxy, or a C2-6 alkanoyloxy group, in which B along with the H2N-CR2 segment forms a tetrahydroisoquinoline residue with B = benzyl, R2 = H, and with the CH2 group in the 2 position on the benzyl residue, in which B along with the -CR2 segment forms a tetrahydronaphthyl residue in which 1 of the CH2 groups may be replaced by O, or in which B together with the -CR2 segment forms a decahydronaphthyl or indanyl residue; R2 = H, a C1-6 alkyl, a Ph, or a Ph-C1-4 alkyl group in which the Ph ring may be substituted with a halogen, hydroxy, C1-4 alkoxy, C1-4 alkyl, or C2-6 alkanoyloxy group; R3 and R4 are the same or different groups selected from H, C1-12 alkyl, C3-8 cycloalkyl, and (optionally C1-6 alkoxy-substituted) Ph groups; and X = H2O or a physiolog. acceptable anion; with the restriction that ≥1 of R2, R3, and R4 is not H when B = a substituted or unsubstituted benzyl group. For Pt(II) complexes, 2 of the X's may be absent. Preparation of the ligands entails reduction of selected precursors. Preparation of the complexes entails reaction of a tetrahaloplatinic acid, a tetrahalo-Pt(II) complex, or a Pt(II) halide with the ligand or an acid addition salt of the ligand, optionally oxidizing to produce a Pt(IV) compound, and exchanging any anions for physiolog. acceptable anions. Therapeutic agents (e.g., antitumor drugs) containing the Pt complexes and methods for preparing them are also described.

10016-20-3, lpha- Cyclodextrin

RL: RCT (Reactant); RACT (Reactant or reagent)

(in platinum complex-containing therapeutic material preparation)

RN 10016-20-3 HCAPLUS

IT

CN α -Cyclodextrin (8CI, 9CI) (CA INDEX NAME)

L31 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1992:27959 HCAPLUS

DOCUMENT NUMBER:

116:27959

TITLE:

Oversaturated solutions of drugs in hydroxypropyl

cyclodextrins, parenteral

preparations of pancratistatin

Torres-Labandeira, J. J.; Pitha, J.

AUTHOR(S): CORPORATE SOURCE: NIA, Natl. Inst. Health, Baltimore, MD, 21224, USA

Minutes Int. Symp. Cyclodextrins, 5th (1990)

, 495-8. Editor(s): Duchene, Dominique. Ed. Sante:

Paris, Fr.

CODEN: 57LSAJ

DOCUMENT TYPE: Conference

Ι

English

LANGUAGE:

GΙ

AΒ

SOURCE:

The effects of 15 cyclodextrin derivs. (electroneutral-polar or nonpolar, cationic, and anionic) and 3 2-hydroxypropyldigitonins on the solubility of pancratistatin (I), an anti-cancer drug, were evaluated. The direct solubilization into aqueous solns. was invariably low (0.1-1.2 mg/mL in water). Complexes of I with hydroxypropyl β cyclodextrin were more stable (Kapp 153 M-1) than those with hydroxypropyl γ - cyclodextrin (Kapp 108 M-1). When solid

amorphous complexes of I with a large excess (1:50 weight/weight) of hydroxypropyl cyclodextrins were made, i.e. both inclusion and interdispersed in the cyclodextrin network were operative, these dissolved rapidly forming clear solns. of I of concns. up to 9 mg/mL. These solns. were oversatd. and while those based on hydroxypropyl β -cyclodextrin precipitated within an hour, those based on hydroxypropyl γ -cyclodextrin were stable when kept in a plastic container, i.e., for at least 4 h, enough for the potential use in parenteral prepns.

IT 7585-39-9D, β - Cyclodextrin, hydroxypropyl ether 12619-70-4, Cyclodextrin 17465-86-0D, γ -

Cyclodextrin, hydroxypropyl ether

RL: BIOL (Biological study)

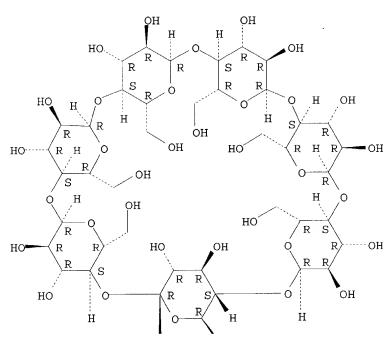
(pancratistatin solubilization by, for oversatd. parenteral solns.)

RN 7585-39-9 HCAPLUS

CN β -Cyclodextrin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

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OH

RN 12619-70-4 HCAPLUS

CN Cyclodextrin (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 17465-86-0 HCAPLUS

CN γ -Cyclodextrin (8CI, 9CI) (CA INDEX NAME)

L31 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1991:435645 HCAPLUS

DOCUMENT NUMBER:

115:35645

TITLE:

Oversaturated solutions of drug in hydroxypropyl

cyclodextrins: parenteral
preparation of pancratistatin

AUTHOR (S):

Torres-Labandeira, Juan J.; Davignon, Paul; Pitha,

Joset

CORPORATE SOURCE:

Health NIA, Natl. Inst., Baltimore, MD, 21224, USA

SOURCE:

Journal of Pharmaceutical Sciences (1991),

BOOKCE.

80(4), 384-6

CODEN: JPMSAE; ISSN: 0022-3549

DOCUMENT TYPE:

Journal

LANGUAGE:

English

GI

AB The effect of 15 cyclodextrin derivs. (polar-electroneutral, cationic, anionic, and lipophilic) and of three 2-hydroxypropyldigitonins on the solubility of pancratistatin (I), an anticancer drug, was evaluated. The direct solubilization into aqueous solns. were

invariably low (0.1-1.2 mq/mL compared with 50 μq/mL in water). Complexes of I with hydroxypropyl β- cyclodextrin were more stable (Kapp 153 M-1) than those with hydroxypropyl γ cyclodextrin (Kapp 108 M-1). Acceptable prepns. were made by dissoln. of I in a large excess (50+) of hydroxypropyl cyclodextrin by ammonia and then freeze drying to ammonia-free prepns. In these prepns., both the inclusion and interdispersion phenomana were operative, and the prepns. dissolved rapidly forming clear solns. of I of concns. up to 9 mg/mL. These solns. were oversatd. and while those based on hydroxypropyl β - cyclodextrin precipitated within 1 h, those based on hydroxypropyl γ- cyclodextrin were stable for at least 4 h when kept in a plastic container (i.e., time sufficient for potential use in parenteral prepns.). 10016-20-3D, α - Cyclodextrin, ethers with diethylaminoethanol 51166-71-3 55216-11-0, 2,3,6-O-Trimethyl- β - cyclodextrin 104723-60-6 RL: BIOL (Biological study) (pancratistatin solubilization by, for parenteral solution) 10016-20-3 HCAPLUS α -Cyclodextrin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN

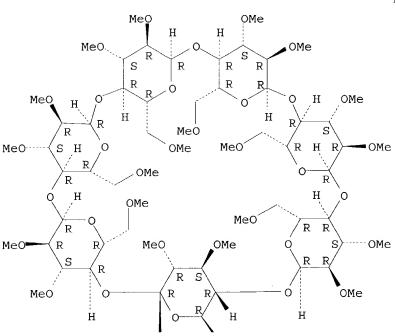
CN

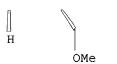
RN 51166-71-3 HCAPLUS
CN β-Cyclodextrin, 2A,2B,2C,2D,2E,2F,2G,6A,6B,6C,6D,6E,6F,6G-tetradeca-0methyl- (9CI) (CA INDEX NAME)

RN 55216-11-0 HCAPLUS

CN β-Cyclodextrin, 2A,2B,2C,2D,2E,2F,2G,3A,3B,3C,3D,3E,3F,3G,6A,6B,6C,6D,6E,6F,6G-heneicosa-O-methyl- (9CI) (CA INDEX NAME)

PAGE 1-A



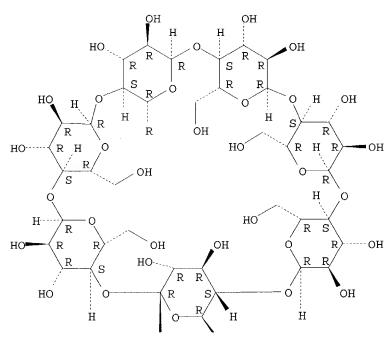


PAGE 2-A

RN 104723-60-6 HCAPLUS CN β -Cyclodextrin, O- α -D-glucopyranosyl-(1 \rightarrow 4)-O- α -D-glucopyranosyl-(1 \rightarrow 6A)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A





PAGE 2-A

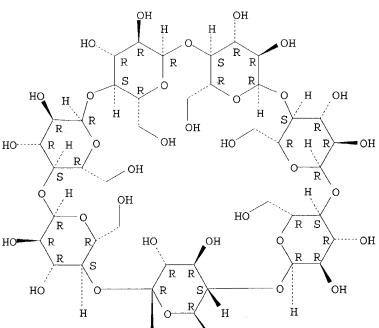
PAGE 3-A

Absolute stereochemistry.

 $_{
m IT}$

CN

PAGE 1-A



PAGE 2-A



RN 17465-86-0 HCAPLUS

CN γ-Cyclodextrin (8CI, 9CI) (CA INDEX NAME)

L31 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1982:444333 HCAPLUS

DOCUMENT NUMBER:

97:44333

TITLE: PATENT ASSIGNEE(S):

Antineoplastic pharmaceuticals

Institute of Physical and Chemical Research, Japan; Tofu, Mutsuyuki; Kaken Chemical Co., Ltd.

Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

SOURCE:

Patent Japanese

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				
JP 57058620	A2	19820408	JP 1980-133980	19800926 <
JP 63044127	B4	19880902		
PRIORITY APPLN. INFO.:			JP 1980-133980	19800926
GI				

Antineoplastic pharmaceuticals for oral as well as parenteral administration are prepared containing 1,2-dimethyl-4-formyl-1-cyclohexene (I) [18022-66-7] or 1,2-dimethyl-4-formyl-1,4-cyclohexadiene (II) [82372-64-3]. Thus, enteric tablets were prepared containing I β- cyclodextrin inclusion compound [82372-66-5] 100, lactose 98.4, hydroxypropyl cellulose 0.6, Mg stearate 2.0, cellulose acetate phthalate 6.0 and hydroxypropyl Me cellulose phthalate 6.0 g.

IT 82372-65-4 82372-66-5

RL: BIOL (Biological study)

(antineoplastic pharmaceuticals containing)

RN 82372-65-4 HCAPLUS

CN β -Cyclodextrin, compd. with 4,5-dimethyl-1,4-cyclohexadiene-1-carboxaldehyde (9CI) (CA INDEX NAME)

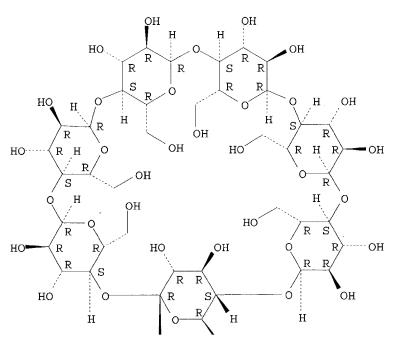
CM 1

CRN 82372-64-3 CMF C9 H12 O

CM 2

CRN 7585-39-9 CMF C42 H70 O35

PAGE 1-A



PAGE 2-A

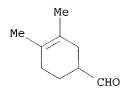


RN 82372-66-5 HCAPLUS

CN β -Cyclodextrin, compd. with 3,4-dimethyl-3-cyclohexene-1-carboxaldehyde (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 18022-66-7 CMF C9 H14 O

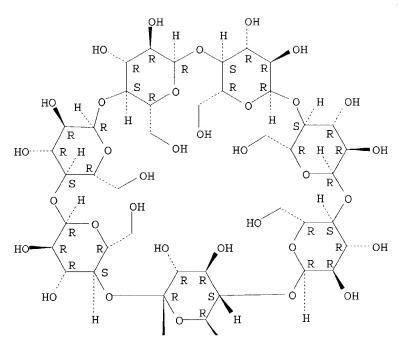


CM 2

CRN 7585-39-9 CMF C42 H70 O35

Absolute stereochemistry.

PAGE 1-A



H OH PAGE 2-A

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=> d stat que 133
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L8
          27247 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 OR ?CYCLODEXTR?
106633 SEA FILE=HCAPLUS ABB=ON PLU=ON (?TUMOR? OR ?CANCER? OR
L10
L28
                  ?NEOPLAS?) (5A) (?MEDIC? OR ?PHARM? OR ?DRUG? OR INHIBTOR OR
                  ?THERAP?)
              706 SEA FILE=HCAPLUS ABB=ON PLU=ON L10(L) (TABLET OR CAPSULE)
L32
L33
                3 SEA FILE=HCAPLUS ABB=ON PLU=ON L28 AND L32 AND PD=<APRIL 10,
                  1997
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=>

=> d ibib abs hitstr 133 1-3

L33 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

1987:642634 HCAPLUS ACCESSION NUMBER: DOCUMENT NUMBER:

107:242634

Antitumor pharmaceuticals TITLE:

containing cyclodextrins and/or collagens as

stabilizers

INVENTOR(S): Nakanishi, Michio

PATENT ASSIGNEE(S): Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

AΒ

SOURCE:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62149626	A2	19870703	JP 1985-291537	19851224 <
PRIORITY APPLN. INFO.:			JP 1985-291537	19851224

Pharmaceuticals contain antitumor agents and at least one compound selected from the group consisting of cyclodextrins and collagens. Tegafur 100 and β - cyclodextrin 200 parts by

weight were dissolved in a mixture of Witepsol E-75 1000 and Witepsol H-15 900 parts by weight and placed in suppository capsules.

ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1982:444333 HCAPLUS

DOCUMENT NUMBER: 97:44333

TITLE: Antineoplastic pharmaceuticals

PATENT ASSIGNEE(S): Institute of Physical and Chemical Research, Japan;

Tofu, Mutsuyuki; Kaken Chemical Co., Ltd.

Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57058620	A2	19820408	JP 1980-133980	19800926 <
JP 63044127	B4	19880902		
PRIORITY APPLN. INFO.:			JP 1980-133980	19800926
GI				

AB Antineoplastic pharmaceuticals for oral as well as parenteral administration are prepared containing 1,2-dimethyl-4-formyl-1-[18022-66-7] or 1,2-dimethyl-4-formyl-1,4-cyclohexadiene cyclohexene (I)

[82372-64-3]. Thus, enteric tablets were prepared containing I (II)β- cyclodextrin inclusion compound [82372-66-5]

100, lactose 98.4, hydroxypropyl cellulose 0.6, Mg stearate 2.0, cellulose acetate phthalate 6.0 and hydroxypropyl Me cellulose phthalate 6.0 g.

ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN L33

CCESSION NUMBER:

1981:180684 HCAPLUS

OCUMENT NUMBER:

94:180684

ITLE:

OURCE:

Antitumor pharmaceuticals

ATENT ASSIGNEE(S):

containing benzaldehyde derivatives

Institute of Physical and Chemical Research, Japan;

Higashikaze, Mutsuyuki; Kaken Chemical Co., Ltd.

Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

Patent

OCUMENT TYPE: ANGUAGE:

Japanese

AMILY ACC. NUM. COUNT:

ATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				
JP 56012310	A2	19810206	JP 1979-87242	19790710 <
JP 63052012	B4	19881017		
ORITY APPLN. INFO.:			JP 1979-87242	19790710

CHO R^1 Ι

Anticancer pharmaceuticals contain I (R1 = alkoxy, OH,

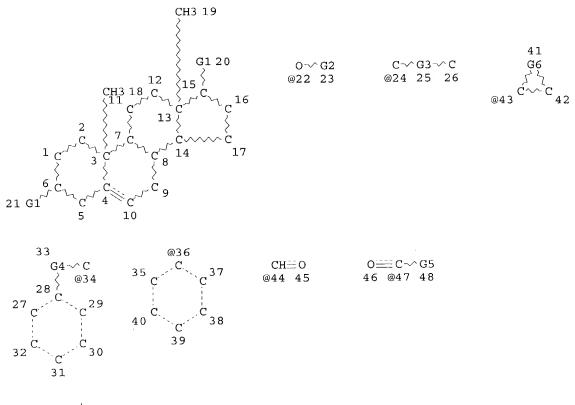
Me, H, or halogens; R2 = alkoxy, phenoxy, OH, H or halogens; R3 = alkoxy, phenoxy, methyloxy, benzoyl, chlorophenylsulfonyl, OH, halogens, nitro, amino, pyrrolizinyl, or H). For example, 2-(heptyloxy)benzaldehyde (II) [66049-86-3] was prepared by the treatment of heptyl bromide [629-04-9] with Na salicylaldehyde [3116-83-4] in the presence of EtOH. II was treated with cyclodextrin to give a II- β cyclodextrin inclusion compound [77422-29-8].

Tablets were prepared containing the inclusion compound 100, lactose 99.4, hydroxypropyl cellulose 0.6, Mg stearate 2.0, cellulose acetate phthalate 6.0 and hydroxypropyl Me cellulose phthalate 6.0 g. II at 50 μg/mL totally inhibited the growth of W2K.11 cancer cells in cultures.

> []

> d stat que

STR



VAR G1=OH/22

VAR G2=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/24/34/36/43/44/47

REP G3 = (3-6) C

REP G4 = (0-4) C

 $VAR \ G5=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/24/34/36/43$

REP G6 = (1-6) C

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

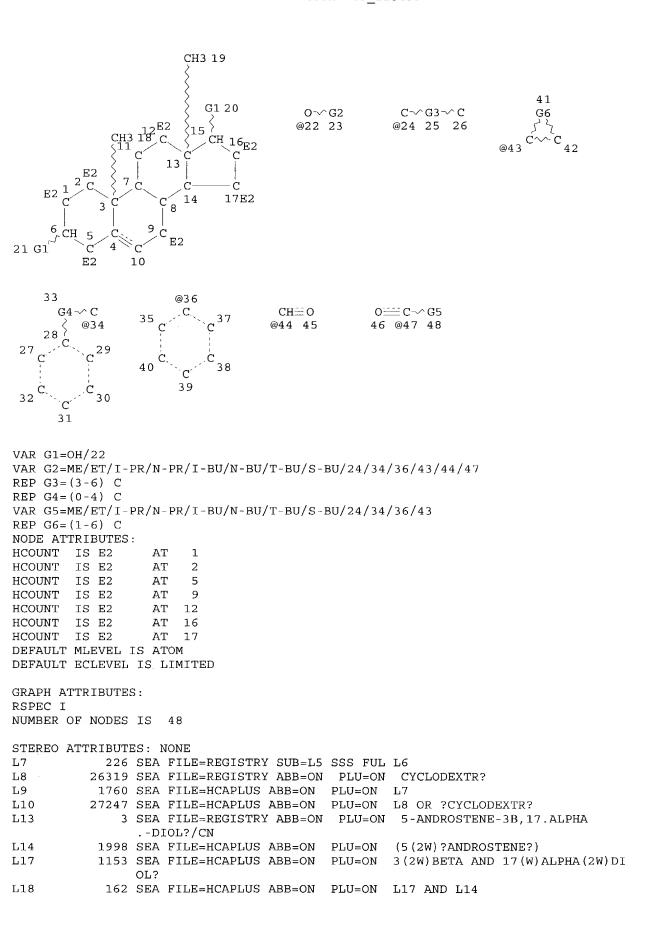
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 48

STEREO ATTRIBUTES: NONE

L5 3839 SEA FILE=REGISTRY SSS FUL L1

L6 STR



Cook 09_225499

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L26	99	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L9 AND L21
L27	2	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L22 AND L26
L28	106633	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	(?TUMOR? OR ?CANCER? OR
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		?THI	ERAP?)			
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L33	3	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L28 AND L32 AND PD= <april 10,<="" td=""></april>
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L36	3	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L35 NOT (L31 OR L27 OR L33)

=> d ibib abs hitstr 136 1-3

L36 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1958:17505 HCAPLUS

DOCUMENT NUMBER: 52:17505
ORIGINAL REFERENCE NO.: 52:3171e-f

TITLE: Testosterone and miscellaneous steroids in the

treatment of advanced mammary cancer

AUTHOR(S): Segaloff, Albert

CORPORATE SOURCE: Alton Ochsner Med. Foundation, New Orleans, LA

SOURCE: Cancer (1957), 10, 808-12

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

AB The effects of progesterone, cortisone, testosterone, etiocholane-17 β -ol-3-one, androstane-3,17-dione, 5-androstene-3 β ,17 β -diol, androstane-17 β -ol-3-one, 5-androsten-3 β -ol-17-one, 17 α -methyl-5-androstene-3 β ,17 β -diol, 17 α -methyl-4-androsten-17 β -ol-3-one, 17 α -vinyl-4-androsten-17 β -ol-3-one, 4-androsten-17 α -ol-3-one, and 4-estren-17 β -ol-3-one on hormonal excretion, their clinical effectiveness, and androgenicity are summarized. Changes in the testosterone mol. that decreased androgenicity and the ability to inhibit the excretion of gonad-stimulating hormones also decreased the clinical effectiveness of the compds.

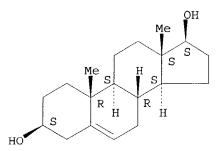
IT 521-17-5, Androst-5-ene-3 β , 17 β -diol

(in mammary cancer treatment)

RN 521-17-5 HCAPLUS

CN Androst-5-ene-3,17-diol, $(3\beta,17\beta)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L36 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1954:61538 HCAPLUS

DOCUMENT NUMBER: 48:61538 ORIGINAL REFERENCE NO.: 48:10933a

TITLE . Hormonal therapy in cancer of the

breast. IV. Effect of androstenediol on clinical

course and hormonal excretion

Segaloff, Albert; Horwitt, Benjamin N.; Gordon, AUTHOR(S):

Douglas; Murison, Paul J.; Schlosser, Joseph V.

Tulane Univ., New Orleans, LA CORPORATE SOURCE:

SOURCE: Obstetrical & Gynecological Survey (1954),

9, 458-9

CODEN: OGSUA8; ISSN: 0029-7828

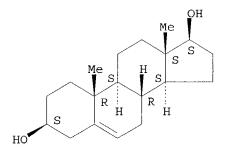
DOCUMENT TYPE: Journal LANGUAGE: Unavailable

AB See C.A. 47, 2381i. IT 521-17-5, Androstenediol (cancer therapy with)

521-17-5 HCAPLUS RN

Androst-5-ene-3,17-diol, $(3\beta,17\beta)$ - (9CI)CN(CA INDEX NAME)

Absolute stereochemistry.



L36 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1953:13481 HCAPLUS

DOCUMENT NUMBER: 47:13481 ORIGINAL REFERENCE NO.: 47:2381i,2382a

Hormonal therapy in cancer of the TITLE:

breast. IV. Effect of androstenediol on clinical

course and hormonal excretion

Segaloff, Albert; Horwitt, Benjamin N.; Gordon, AUTHOR(S):

Douglas; Murison, Paul J.; Schlosser, Joseph V.

CORPORATE SOURCE: Tulane Univ. Med. School, New Orleans, LA SOURCE: Cancer (1952), 5, 1179-81

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

cf. C.A. 46, 6275c. Of 21 patients treated with intramuscular injections of $\Delta 5\text{-androstene-3}\beta,17\beta\text{-diol},$ none showed regression of lesions. The therapy caused an increase in the urinary 17-ketosteroids, formaldehydogenic corticoids, and uric acid excretion. There were decreases in urinary creatinine and ovarian-hyperemia gonadotropins. Several of the patients showed lower gonad-stimulating hormone excretion than usual for their age and endocrine status.

IT**521-17-5**, 5-Androstene- 3β , 17β -diol

(effect on mammary cancer)

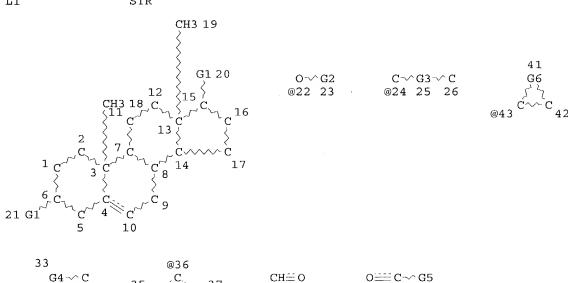
521-17-5 HCAPLUS

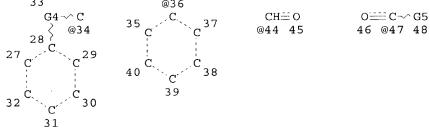
RN

Androst-5-ene-3,17-diol, $(3\beta,17\beta)$ - (9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

=> [





VAR G1=OH/22

 ${\tt VAR \ G2=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/24/34/36/43/44/47}$

REP G3 = (3-6) C

REP G4 = (0-4) C

 $\label{eq:VAR} VAR \ G5=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/24/34/36/43$

REP G6=(1-6) C

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

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NUMBER OF NODES IS 48
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L5
L6
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                                       0~ G2
                                                    C-\^G3-\^C
                                                                      G6
                                                   @24 25 26
                                      @22 23
               10
    33
                     @36
                                   CH<u></u>O
                                                0 === C -√ G5
                                  @44 45
                                                46 @47 48
                      39
      31
VAR G1=OH/22
VAR G2=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/24/34/36/43/44/47
REP G3 = (3-6) C
REP G4 = (0-4) C
VAR G5=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/24/34/36/43
REP G6 = (1-6) C
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HCOUNT
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                  AT
HCOUNT
        IS E2
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HCOUNT
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HCOUNT
HCOUNT IS E2
                  AT
                      17
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DEFAULT ECLEVEL IS LIMITED
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RSPEC I
NUMBER OF NODES IS 48
STEREO ATTRIBUTES: NONE
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L8
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L9
           1760 SEA FILE=HCAPLUS ABB=ON PLU=ON L7
          27247 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 OR ?CYCLODEXTR?
L10
L13
              3 SEA FILE=REGISTRY ABB=ON PLU=ON 5-ANDROSTENE-3B,17.ALPHA
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L17
               OL?
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L18
               SEL PLU=ON L13 1- CHEM:
                                               10 TERMS
L19
            42 SEA FILE=HCAPLUS ABB=ON PLU=ON L19
L20
           188 SEA FILE=HCAPLUS ABB=ON
                                        PLU=ON L20 OR L18
L21
            37 SEA FILE=HCAPLUS ABB=ON
                                        PLU=ON L9 AND (L10 OR CARRIER)
L22
                                        PLU=ON L9 AND L21
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L26
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L27
         106633 SEA FILE=HCAPLUS ABB=ON PLU=ON
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L28
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L29
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L30
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L31
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L32
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L33
               1997
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L34
                                        PLU=ON L34 AND PD=<APRIL 10, 1997
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L35
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L36
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L37
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L38
               L36)
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=> d ibib abs hitstr 138 1

L38 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1989:540509 HCAPLUS

DOCUMENT NUMBER:

111:140509

TITLE:

Antidiabetics containing hormones

INVENTOR (S):

Nishihata, Ryoji; Mikami, Hiroteru; Numazawa, Hiromi;

Namura, Shogo; Inoue, Akifumi; Yoneda, Ryozo Nippon Zoki Pharmaceutical Co., Ltd., Japan

PATENT ASSIGNEE(S):

Jpn. Kokai Tokkyo Koho, 4 pp.

SOURCE:

CODEN: JKXXAF

Patent

DOCUMENT TYPE: LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION: DATENT NO

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE						
	JP 63290828	A2	19881128	JP 1987-126328	19870522						
	JP 2542846	B2	19961009								
PRIO	RITY APPLN. INFO.:			JP 1987-126328	19870522						
AB	AB A pharmaceutical for treatment of diabetes contains pregnenolone,										
	androstenedione, and	drostene	ediol. testo	sterone, estrone, and di	ried powder						

androstenedione, androstenediol, testosterone, estrone, and dried powde thyroid tissues. A tablet was prepared consisting of pregnenolone 1.0, androstenedione 1.0, androstenediol 0.5, testosterone 0.1, estrone 0.005, dried thyroid powder 7.5, and other excipients to 400 mg. Pharmacol. studies with mice are shown.

521-17-5, Androstenediol IT

RL: BIOL (Biological study)

(antidiabetic tablets containing)

RN 521-17-5 HCAPLUS CN Androst-5-ene-3,17-diol, $(3\beta,17\beta)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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=> d stat que 141 nos
                STR
L1
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L5
L6
                STR
            226 SEA FILE=REGISTRY SUB=L5 SSS FUL L6
L7
          26319 SEA FILE=REGISTRY ABB=ON
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1.8
           1760 SEA FILE=HCAPLUS ABB=ON
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                                                  L7
L9
          27247 SEA FILE=HCAPLUS ABB=ON
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                                                  L8 OR ?CYCLODEXTR?
L10
L13
              3 SEA FILE=REGISTRY ABB=ON
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                .-DIOL?/CN
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                                                   3(2W)BETA AND 17(W)ALPHA(2W)DI
L17
                OL?
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L18
L19
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                                                  10 TERMS
L20
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                                                  L19
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                                                   L20 OR L18
L21
             37 SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                   L9 AND (L10 OR CARRIER)
L22
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                                                   L9 AND L21
L26
L27
              2 SEA FILE=HCAPLUS ABB=ON
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L29
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L30
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L31
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T<sub>1</sub>34
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1.36
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                                                   L9(L) (TABLET OR CAPSULE)
L37
              1 SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                   L37 NOT (L31 OR L27 OR L33 OR
L38
                L36)
             13 SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON L9 AND (?PARENTER? OR
L39
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T.40
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=> d ibib abs hitstr 141 1-2

L41 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1953:22845 HCAPLUS

DOCUMENT NUMBER: 47:22845
ORIGINAL REFERENCE NO.: 47:3954f-q

TITLE: Urinary excretion of phenol steroids and 3-hydroxy

steroids after administration of androstenediol

AUTHOR(S): Principe, S.; Gasparri, F.

CORPORATE SOURCE: Univ. Florence, Italy

SOURCE: Rivista di Ostetricia e Ginecologia (1951),

6, 299-303

CODEN: ROGNAG; ISSN: 0394-977X

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

LANGUAGE: Unavailable

AB The parenteral administration of 25 mg. androstenediol

propionate to 20 eucrinic women caused an excretion of phenol steroids and

3-hydroxy steroids inversely proportional to their basal value.

IT 38859-47-1, Androstenediol, propionate

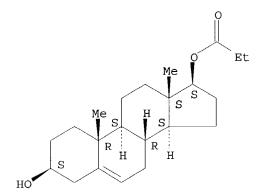
(effect on phenol steroids and 3-hydroxy steroids in urine)

RN 38859-47-1 HCAPLUS

CN Androst-5-ene-3,17-diol, 17-propanoate, $(3\beta,17\beta)$ - (9CI) (CA

INDEX NAME)

Absolute stereochemistry.



L41 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1952:62481 HCAPLUS

DOCUMENT NUMBER: 46:62481
ORIGINAL REFERENCE NO.: 46:10461b-c

TITLE: Morphological and functional changes produced by high

doses of androstenediol on the gonads and hypophysis

in the adult guinea pig. II. Testicle

AUTHOR(S): Larizza, Paolo; Chirico, Giuseppe

CORPORATE SOURCE: Univ. Pavia, Italy

SOURCE: Archivio per le Scienze Mediche (1952), 94,

109-15

CODEN: ASMEAU; ISSN: 0004-0312

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

AB Parenteral administration of large doses of androstenediol

dipropionate in oil produced in the guinea pig on long treatment changes in the testicle showing inhibition of the tubules and the interstitial

tissue.

IT 521-17-5, Androstenediol

(effect on gonads and hypophysis)

RN 521-17-5 HCAPLUS

CN Androst-5-ene-3,17-diol, $(3\beta,17\beta)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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=> 🗌
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```
d stat que 143 nos
L1
                STR
           3839 SEA FILE=REGISTRY SSS FUL L1
L5
L6
                STR
            226 SEA FILE=REGISTRY SUB=L5 SSS FUL L6
L7
          26319 SEA FILE=REGISTRY ABB=ON
                                          PLU=ON CYCLODEXTR?
L8
           1760 SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  L7
L9
          27247 SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON L8 OR ?CYCLODEXTR?
L10
L13
              3 SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   5-ANDROSTENE-3B, 17. ALPHA
                 .-DIOL?/CN
           1998 SEA FILE=HCAPLUS ABB=ON
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                                          PLU=ON
1.14
           1153 SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  3(2W)BETA AND 17(W)ALPHA(2W)DI
L17
                OL?
            162 SEA FILE=HCAPLUS ABB=ON
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                                                  L17 AND L14
L18
                    PLU=ON L13 1- CHEM :
                                                 10 TERMS
L19
                SEL
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                                          PLU=ON
                                                  L19
L20
            188 SEA FILE=HCAPLUS ABB=ON
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                                                  L20 OR L18
L21
             37 SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  L9 AND (L10 OR CARRIER)
L22
                                          PLU=ON
L26
             99 SEA FILE=HCAPLUS ABB=ON
                                                  L9 AND L21
L27
              2 SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  L22 AND L26
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L28
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                ?THERAP?)
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                                          PLU=ON
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                L36)
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175 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND PD=<APRIL 10, 1997 2 SEA FILE=HCAPLUS ABB=ON PLU=ON (L42 AND (?PARENTER? OR
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=> d ibib abs hitstr 143 1-3
L43 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1967:95307 HCAPLUS
                          66:95307
DOCUMENT NUMBER:
                          7\alpha-Methyl- and 2\alpha, 7\alpha-
TITLE:
                          dimethylandrostene derivatives
                          Upjohn Co.
PATENT ASSIGNEE(S):
                          Neth. Appl., 51 pp.
SOURCE:
                          CODEN: NAXXAN
DOCUMENT TYPE:
                          Patent
                          Dutch
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                        KIND DATE
                                             APPLICATION NO.
                                                                     DATE
                          _____
     _____
     NL 6604607
                                 19661010
                                              DE
     DE 1593613
     FR 1492868
                                              FR
     FR 5612
                                              FR
     GB 1146991
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     GB 1146992
                                              GB
                                 19680000
     US 3380886
                                              US
                                                                       19650407
PRIORITY APPLN. INFO.:
     Some of the information of Neth. Appl. 6,604,702 is given. The following
     addnl. information is presented. 7\alpha, 17\alpha-Dimethyl-3, 5-
     androstadiene-3,17\alpha -diol
     3,17-diacetate (0.5 g.) containing some 7\beta-epimer in 15 cc. 95% EtOH
     treated about 18 hrs. at room temperature with 0.5 g. NaBH4 in 15 cc. 95% EtOH
     gave a mixture of 7\alpha, 17\alpha-dimethyl- 5-androstene
     -3\beta , 17\beta -diol 17-acetate (I) and
     its 7\beta-epimer. I (0.38 g.) in 20 cc. tetrahydrofuran treated 24 hrs.
     at room temperature with stirring with 1 q. LiAlH4 gave 160 mg.
     7\alpha, 17\alpha-dimethyl- 5.alpha.-androstene-
     3\beta , 17\beta -diol, m. 193-4°
     (Me2CO-Skellysolve B). 7\alpha-Methyl-3,5-androstadiene- 3,17.
     beta.-diol 3,17-diacetate (20 g.) in 300 cc. 95% EtOH stirred 16
     hrs. under N with 10 g. NaBH4 in 250 cc. 95% EtOH yielded 1.6 g.
     7\alpha-methyl- 5-androstene-3.beta
     .,17\beta -diol (II), m. 213-16° (Me2CO), [\alpha]D
     -124° (dioxane). 17-Acetate (III) (1.8 g.) of II stirred 16 hrs.
     in 10 cc. dihydropyran and 50 cc. Et20 with 100 mg. p-MeC6H4SO3H, and the
     resulting 3-tetrahydropyranyl ether refluxed about 1.5 hrs. with 100 cc.
     5% K2CO3 in 4:1 MeOH-H2O gave the 3-tetrahydropyranyl ether (IV) of II.
     The IV in 10 cc. C5H5N treated 16 hrs. at room temperature with 2 g. CrO3 in 20
     cc. C5H5N gave the 3-tetrahydropyranyl ether of 7\alpha-methyl-5-
     androsten-3\beta -ol-17-one (V) which treated
     overnight in 20 cc. Me2CO with 2 cc. 3N HCl gave V. V (1 g.) treated 16
     hrs. at room temperature with 1 cc. each C5H5N and Ac2O gave the 3,17-diacetate
     of V, m. 104-6° (MeOH). The compds. described are useful anabolic,
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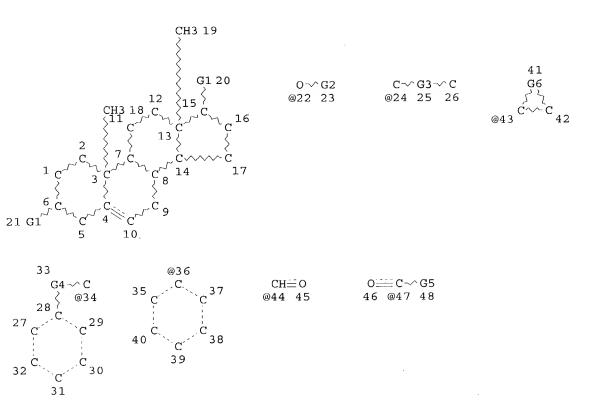
for their formulation in tablets, gelatin capsules, and aqueous suspensions

antiandrogenic, antiestrogenic, and hypocholesteremic agents. Examples

for oral and parenteral applications are given.

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43 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN
CCESSION NUMBER:
                        1946:27994 HCAPLUS
OCUMENT NUMBER:
                        40:27994
RIGINAL REFERENCE NO.: 40:5495f-h
                        Isolation of androsterone, etiocholan-3(\alpha)-ol-17-
ITLE:
                        one, and .DELTA.5-androstene-
                        3 (\beta ),17 (.
                        alpha.)-diol from the urine after
                        administration of dehydroisoandrosterone to a man
                        Mason, Harold L.; Kepler, Edwin J.
UTHOR(S):
                        Mayo Clinic, Rochester, MN
ORPORATE SOURCE:
                        Journal of Biological Chemistry (1945), 160,
OURCE:
                        255-64
                        CODEN: JBCHA3; ISSN: 0021-9258
OCUMENT TYPE:
                        Journal
ANGUAGE:
                        Unavailable
   cf. C.A. 40, 3517.6.
                         The urinary steroids formed during the
   administration of dehydroisoandrosterone (I), which is present in
   relatively large amts. in the urine of patients with tumors of the adrenal
   cortex, to a subject were determined in an effort to elucidate the metabolism
   of I. After parenteral administration of 1090 mg. of I acetate
   to a man with anterior-pituitary insufficiency, 79 mg. of unchanged I, 130
   mg. of androsterone, 73 mg. of etiocholan-3(\alpha)-ol-17-one and 6.5 mg.
   of D5-androstene-3 (\beta), 17 (.
   alpha.) -diol were recovered from the urine. Two addnl.
   crystalline ketones and four nonketones were obtained in small amts. but not
   identified.
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> d stat que
               STR
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Page 44



VAR G1=OH/22

VAR G2=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/24/34/36/43/44/47

REP G3 = (3-6) C

REP G4 = (0-4) C

VAR G5=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/24/34/36/43

REP G6=(1-6) C

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 48

STEREO ATTRIBUTES: NONE

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L6 STR

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SEL PLU=ON L13 1- CHEM:
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L20
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L22
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L26
L27
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L42
             2 SEA FILE=HCAPLUS ABB=ON PLU=ON (L42 AND (?PARENTER? OR
T.43
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             O SEA FILE-HCAPLUS ABB-ON PLU-ON L44 NOT (L31 OR L27 OR L33 OR
L45
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=> d stat que 147 nos
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          3839 SEA FILE=REGISTRY SSS FUL L1
L6
               STR
L7
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         26319 SEA FILE=REGISTRY ABB=ON PLU=ON CYCLODEXTR?
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L9
         1760 SEA FILE=HCAPLUS ABB=ON PLU=ON L7
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L22
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L29
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           85 SEA FILE=HCAPLUS ABB=ON PLU=ON L29 AND PD=<APRIL 10, 1997
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8 SEA FILE=HCAPLUS ABB=ON PLU=ON L30 AND (?PARENTER? OR
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=> d ibib abs hitstr 147 1

L47 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:763027 HCAPLUS

DOCUMENT NUMBER:

135:318608

TITLE:

Preparation of 8β -hydrocarbyl-substituted estratrienes for use as selective estrogens

INVENTOR(S):

Peters, Olaf; Hillisch, Alexander; Thieme, Ina; Elger,

Walter; Hegele-Hartung, Christa; Kollenkirchen, Uwe;

Fritzemeier, Karl-Heinrich; Patchev, Vladimir

PATENT ASSIGNEE(S):

SOURCE:

Schering Aktiengesellschaft, Germany PCT Int. Appl., 90 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND)	DATE APPLICATION NO.					DATE						
					-												
WO 2001077139				A1	.1 20011018		WO 2001-EP4290				20010412						
	W:	ΑE,	AG,	ΑL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
		CR,	CU,	CZ,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,
		ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,
		LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	ΡL,	PT,	RO,	RU,	SD,
		SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VN,	YU,
		ZA,	ZW,	AM,	ΑZ,	ΒY,	KG,	ΚZ,	MD,	RU,	ΤJ,	\mathbf{MT}					
	RW:	GH,	GM,	KE,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,
		DE,	DK,	ES,	FΙ,	FR,	GB,	GR,	ΙE,	ΙΤ,	LU,	MC,	NL,	PT,	SE,	TR,	BF,
		ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG		
DE 10019167				A 1		20011018			DE 2000-10019167					20000412			
EΡ	EP 1272504				A1		20030108			EP 2001-931609					20	0104	412
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR						
BR 2001009983				A		2003	225	BR 2001-9983				20010412					

JP 2003534248	T2	20031118	JP	2001-575609		20010412
EE 200200589	A	20040415	EE	2002-589		20010412
BG 107173	Α	20030530	BG	2002-107173		20021008
NO 2002004908	Α	20021113	NO	2002-4908		20021011
US 2003176405	A1	20030918	US	2003-257288		20030401
PRIORITY APPLN. INFO.:			DE	2000-10019167	A	20000412
			US	2000-207370P	P	20000526
			WO	2001-EP4290	W	20010412

OTHER SOURCE(S):

MARPAT 135:318608

$$\begin{array}{c} \text{OH} \\ \text{Me} \\ \text{H} \\ \text{OH} \\ \text{OH} \\ \text{Me} \\ \text{III} \\ \\ \text{MeO} \\ \text{III} \\ \end{array}$$

AΒ The invention relates to novel 8β -substituted estratrienes I [R2 = H, halogen, straight or branched (un)saturated C1-6-alkyl, alkoxy, CF3, sulfonamide; R3 = alkoxy, sulfonamide, acyloxy; R6, R7 = H; R6R7 = bond; R6', R7' = H, halogen, alkoxy, sulfonamide; R8 = a straight- or branched-chained, optionally partially or completely halogenated C1-5-alkyl, alkenyl, ethynyl, prop-1-ynyl; R9 = H, straight or branched (un) saturated C1-5-alkyl; R9R11 = bond; R11 = H; R11R12 = bond; R11' = H, halogen, a straight- or branched-chained, optionally partially or completely fluoro- or chloro-C1-4-alkyl, alkoxy, alkylthio; R12 = H; R14 = H; R14R15 = bond; R15 = H; R15R16 = bond; R15', R16' = H, halogen, alkoxy, sulfonamid; R16 = H; R17, R17' = H, H and halogen, H and OCH2Ph, H and sulfonamide, alkyl and acyl or acyloxy, alkoxy and alkyl, alkoxy and acyloxy; R17R17' = :CH2, :CR24R25; R24, R25 = halogen; R24R25 = 0]. Thus, vinylestradiol II was prepared from estra-1,3,5(10)-tetraenone III in 8 steps. The inventive estratrienes are used as pharmaceutically active substances that have in vitro a higher affinity to estrogen receptor prepns. of rat prostate than to estrogen receptor prepns. of rat uterus and which in vivo preferably have a preferential effect on bone material as compared to uterus and/or a pronounced effect with respect to the stimulation of the expression of 5HT2a receptor and transporter. II showed a relative binding affinity for the estrogen receptor of $1\ \text{in}\ \text{rat}$ uterus and of 83 in rat prostate. The invention further relates to the production of these novel compds., to their use in therapy and to the

pharmaceutical forms of administration that contain said novel compds. The invention further describes the use of said compds. for treating estrogen-deficiency related diseases and conditions and to the use of an 8β -substituted estratriene structural part in the overall structures of compds. that are characterized by a dissociation in favor of their estrogen effect on the bone as compared to the uterus. REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT => d kwic 147 1 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN Pituitary gland, anterior lobe (neoplasm, medicaments; preparation of 8β -hydrocarbyl-substituted estratrienes for use as selective estrogens) 367929-04-2P, **3**-Methoxy-8 β -vinylestra-1,3,5(10)trien-17B-ol RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent) (preparation of 8β-hydrocarbyl-substituted estratrienes for use as selective estrogens) 26199-45-1P, **3**-Methoxy-8 β -methylestra-1,3,5(10) -367264-86-6P 367264-89-9P trien-17β-ol 367929-00-8P, -Methoxy-8 β -methylestra-1,3,5(10),9(11)-tetraen-17 β -ol 367929-09-7P, **3**-Methoxy-8 β -vinyl-1,3,5(10)-trien-367929-14-4P, $3-Methoxy-17\alpha-(trifluoromethyl)-8\beta$ vinylestra-1,3,5(10)-trien-17 β -ol RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of 8β-hydrocarbyl-substituted estratrienes for use as selective estrogens) 3327-97-7P, 8β -Methylestra-1,3,5(10)-triene- **3**,17 367264-78-6P 367264-79-7P 367264-81-1P 367264-83-3P 367264-85-5P 367264-87-7P 367264-90-2P 367929-01-9P, 8β -Vinylestra-1,3,5(10),9(11)-tetraene-367264-95-7P $3,17\beta$ -ol 367929-02-0P 367929-03-1P 367929-07-5P, 8β -Methylestra-1,3,5(10),9(11)-tetraene- 3,17 β -diol 367929-08-6P, 8β -Ethyl- 9β -estra-1,3,5(10)triene-3,17 β -ol 367929-10-0P, 8β -Vinyl-1,3,5(10)-triene-3, **17** α -367929-11-1P, 17α -Trifluoromethyl-8 β -vinylestra-367929-12-2P, 1,3,5(10)-triene-3,17 β -diol 8β -Vinylestra-1,3,5(10)-triene-2, 3,17 β -triol 367929-15-5P 367929-16-6P 367929-17-7P 367929-18-8P 367929-19-9P 367929-20-2P 367929-21-3P 367929-22-4P 367929-23-5P 367929-24-6P 367929-25-7P 367929-28-0P 367929-26-8P 367929-27-9P 367929-29-1P 367929-31-5P 367929-30-4P 367929-32-6P 367929-33-7P 367929-34-8P, 8β -Vinyl- 9β -estra-1,3,5(10)-triene- 3,17 β -diol RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 8β -hydrocarbyl-substituted estratrienes for use as selective estrogens) 50-27-1, Estriol 50-28-2, Estradiol, biological studies 53-16-7, Estrone, biological studies 57-91-0, 17α -Estradiol 446-72-0,

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Genistein

521-17-5, **5**-

479-13-0, Coumestrol

Androstenediol

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(preparation of 8β -hydrocarbyl-substituted estratrienes for use as selective estrogens)

IT 1478-53-1, Diethyl (difluoromethyl) phosphonate 17401-32-0 367929-13-3, $3,17\beta$ -Bis[(tetrahydropyran-2-yl)oxy]-8 β -

vinylestra-1,3,5(10)-triene

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of 8β -hydrocarbyl-substituted estratrienes for use as selective estrogens)

IT 28990-61-6P, 8β-Formyl-3-methoxyestra-1,3,5(10),9(11)-tetraen-

 $17\beta\text{-ol} \quad 367264\text{-}68\text{-}4P \quad 367264\text{-}69\text{-}5P \quad 367264\text{-}70\text{-}8P \quad 367264\text{-}71\text{-}9P$

367264-72-0P 367264-73-1P 367264-74-2P 367264-75-3P 367264-76-4P

367264-77-5P 367264-80-0P 367264-82-2P 367264-84-4P 367264-88-8P

367264-91-3P 367264-93-5P 367264-94-6P 367264-96-8P 367279-41-2P

367929-05-3P, **3**-Methoxy-8 β -vinylestra-1,3,5(10)-

trien-17-one 367929-06-4P, **3**-Hydroxy-8β

-vinylestra-1,3,5(10)-trien-17-one

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 8β -hydrocarbyl-substituted estratrienes for use as selective estrogens)

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